I CLAIM:

1. An improved structural configuration of an air compressor, essentially comprised of an interlayer in a knapsack; an upper chamber and a lower chamber segregated by the interlay; the upper chamber being sewn a longitudinal zipper on its peripheral; the lower chamber being sewn with a lateral zipper; the upper chamber accommodating multiple components of the air compressor including DC motor, air cylinder, air storage flask, pressure switch and fast connector; a through hole being disposed on the side of the upper chamber at where close to the fast connector of the air storage flask to expose the fast connector to plug into an air delivery hose from a pneumatic tool; the lower chamber accommodating the battery and the control box; a see-through window being sewn on the side of the lower chamber at where close to the control box; handler, carrying belt and shoulder belt being provided to the knapsack is characterized by having the battery charged with AC power for field use of the air compressor.

2. An improved structural configuration of an air compressor as claimed in Claim 1, wherein the drive power source for those air compressor components relates to an AC motor.

3. An improved structural configuration of an air compressor as claimed in Claim 1, wherein, the air storage flask is used to store high pressure pumped by those air compressor components.

4. An improved structural configuration of an air compressor as claimed in Claim 1, wherein, multiple LEDs and a switch are provided on the front of the control box with those LEDs to display charging capacity and residual capacity of the battery.

5. An improved structural configuration of an air compressor as claimed in Claim 1, wherein, the battery is recharged by having an AC source plugged to the control box to store power to be supplied to the DC motor of those air compressor components.

6. An improved structural configuration of an air compressor as claimed in Claim 1, wherein, the wire connecting the DC motor in the upper chamber, and the control box and the battery in the lower chamber penetrates through the through hole disposed on the interlayer in the knapsack.